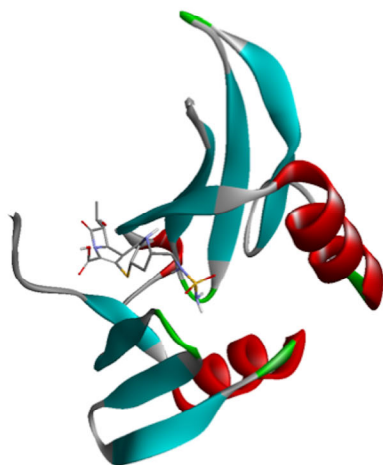
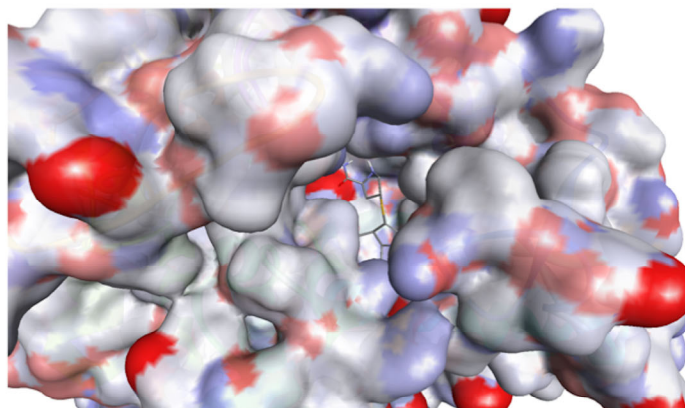


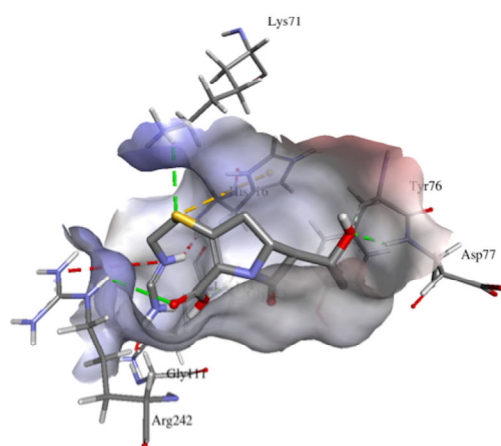
(A) Receptor Ligand Complex, Doripenem



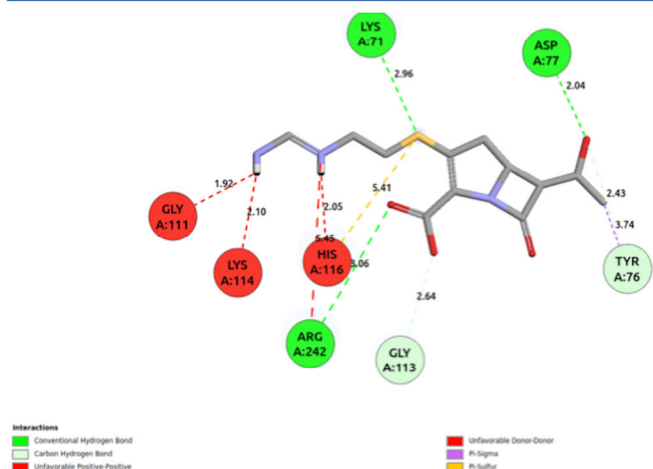
(B) Surface Model, Ertapenem



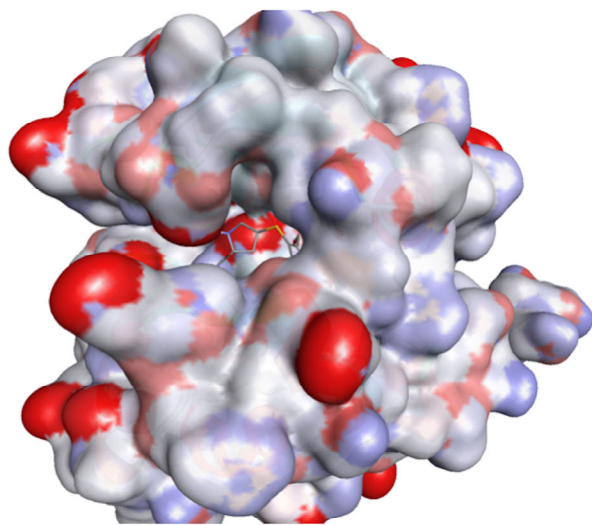
(C) Pocket Interaction, Imipenem



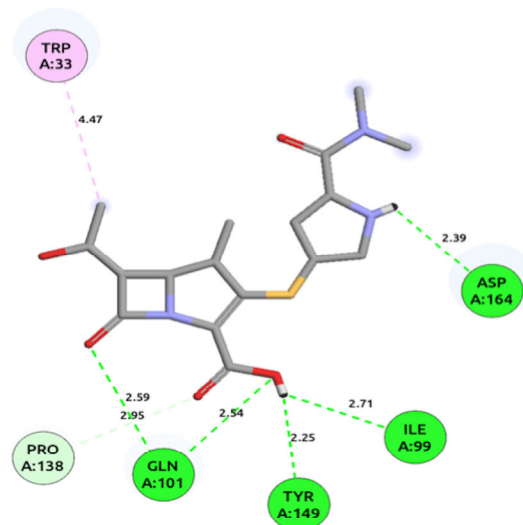
(D) 2D Interaction, Imipenem



(E) Surface Model, Meropenem



(F) 2D Interaction Model, Meorpenem



Supplementary Figure 7. Homology modeling docking of novel AMR genes predicted for *E. coli* and *Shigella* for antibiotics (Doripenem, Ertapenem, Imipenem, and Meropenem). **7a.** Receptor (WP_004201167.1) and ligand (Doripenem) complex. **7b.** Surface model for receptor (WP_001394742.1) and ligand (Ertapenem). **7c.** Pocket interaction of Receptor (WP_004152394.1) and ligand (Imipenem) complex. **7d.** 2D Interaction model for receptor (WP_004152394.1) and ligand (Imipenem). **7e.** Surface model for receptor (WP_032488579.1.1) and ligand (Meropenem). **7f.** 2D Interaction Model for receptor (WP_032488579.1.1) and ligand (Meropenem).